

REMARKS

Claims 1-24 are pending in this application and stand rejected. Applicant has amended claims 1, 9 and 17. The Applicant believes that the present patent application is in condition for allowance. Applicant believes that no new matter has been added by this response.

Response to the 35 U.S.C. §103(a) Rejections

The Examiner rejected claims 1, 5-6, 9, 13-14, 17, and 22 under 35 U.S.C. §103(a) as being unpatentable over Norman et al. (US 6,282,231) in view of Rodal (US 5,650,785). The Examiner states that the Norman et al. reference “does not specifically teach ... [a] signal processor that identifies a carrier wave jamming signal with the crosscorrelator that is in a mode to identify carrier wave jamming signals and employs a fixed predetermined code for a pseudo random number (PRN) code”, (Non-final Office Action dated May 27, 2008, page 5, paragraph 5).

The Examiner then goes on to state that; “Rodal discloses...a low power GPS receiver where a correlation system (#22, Fig. 1) correlated the received signal with a sequence of bits provided by bit source (#32, Fig. 1). Optionally, the bit source 32 may provide a substitute bit stream of all 1's, a random sequence of 0's and 1's, a pseudorandom sequence of 0's and 1's, or a fixed sequence of 0's and 1's (Col 5, Lines 46-67).” But, Col 5, Lines 46-67 of the Rodal patent actually states:

“FIG 2c illustrates an example of a 20 bit section of the quantized IF signal bit stream with no on/off

modulation, a 20 bit section of the replica signal bit stream, and a 20 bit section of the input to the correlator system 22 including 10 bits from the quantized IF signal bit stream during the on time duration followed by 10 bits from the bit source 32 during the off time duration. The quantized IF with no modulation and the replica are shown as 100% correlated. The modulated quantized IF and the replica signal are shown as 100% correlated during the on time duration. 00% correlated during the off time duration. And 50% correlated for the entire on/off cycle. Typically, noise in the IF signal would prevent 100% correlation even with no on/off modulation. In the GPS receiver 10, a correlation in the range of 3% to 16% indicates the minimum signal strength for a valid location fix. In the FIGS. 2a, 2b, and FIG. 2c, the substitute bit stream from the bit source 32 may provide a substitute bit stream of all 1's, a random sequence of 0's and 1's, a pseudorandom sequence of 0's and 1's, or a fixed sequence of 0's and 1's."

It is stated that the substitute bit stream can be 1's, 0's or pseudorandom sequence of 0's and 1's. No where in the Rodal patent does it teach or describe using a predetermined code of all ones for a PRN code in the correlator. The Rodal reference is teaching changing the stream of data that is processed by the correlator, rather than the **code** that is being correlated with the stream.

The Examiner also stated that "applicant has not disclosed that the correlation with a code of all ones solves any stated problems...". Applicant has amended independent claims 1, 9 and 17 to further highlight the correlation with the fixed predetermined code in order to identify carrier wave jamming signal. Thus, the fixed predetermined code must be used to identify carrier waves and not simply an unused input signal.

Therefore, independent claims 1, 5-6, 9, 13-14, 17, and 22 are in condition for allowance along with the claims that depend from the allowable claims, for at least the reasons presented above.

Conclusion

In view of the foregoing discussion, Applicant respectfully submits that the claims 1-24 as presented are in a condition for allowance, for which action is earnestly solicited.

Respectfully submitted,

By 
Attorney for Applicant

Gregory B. Gulliver, Reg. 44,138

Phone: (847) 282-3551

Fax: (847) 574-8035